

AMENDMENTS TO THE CLAIMS

In the Claims:

The following listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1–12. (Canceled).

13. (Canceled).

14. (Currently Amended) ~~The method according to Claim 13,~~ A method for testing functionality of a printed circuit board used to control operation of a printing press, comprising:

providing, to the printed circuit board, a plurality of test input signals to simulate printing press control signals, wherein the plurality of test input signals include including a function enable signal to enable a printing press function to be controlled by the printed circuit board;

monitoring responses of a plurality of simulated printing press loads driven by a plurality of printed circuit board output signals developed in response to the plurality of test input signals; and

analyzing the functionality of the printed circuit board based on the monitored responses of the plurality of simulated printing press loads.

15. (Previously Presented) The method according to Claim 14, wherein the printed circuit board is a digital inker board configured to control:

a volume of ink applied to an ink roller of the printing press for image printing, and
a color change volume of ink applied to the ink roller for a color change function.

16. (Previously Presented) The method according to Claim 15, wherein the plurality of test input signals include an ink enable signal to enable a roller inker function of the digital inker board.

17. (Previously Presented) The method according to Claim 15, wherein the plurality of test input signals include a color change enable signal to enable the roller ink color change function of the digital inker board.

18. (Previously Presented) The method according to Claim 15, wherein the plurality of simulated printing press loads include a plurality of ink pack solenoid coil simulated loads.

19. (Currently Amended) ~~The method according to Claim 13;~~ A method for testing functionality of a printed circuit board used to control operation of a printing press, comprising:
providing, to the printed circuit board, a plurality of test input signals to simulate printing press control signals;
monitoring responses of a plurality of simulated printing press loads driven by a plurality of printed circuit board output signals developed in response to the plurality of test input signals; and
analyzing the functionality of the printed circuit board based on the monitored responses of the plurality of simulated printing press loads;

wherein the printed circuit board is a dampening, registration and ink board for controlling printing press roller dampening, roller positional registration and ink roller rotational speed.

20. (Previously Presented) The method according to Claim 19, wherein the plurality of simulated printing press loads include a plurality of spray-bar solenoid coil simulated loads.

21. (Previously Presented) The method according to Claim 19, wherein the plurality of simulated printing press loads include a plurality of registration solenoid coil simulated loads.

22. (Previously Presented) The method according to Claim 19, further comprising:
receiving, from the printed circuit board, a plurality of ink roller rotational speed analog drive signals.

23. (Currently Amended) ~~The method according to Claim 13;~~ A method for testing functionality of a printed circuit board used to control operation of a printing press, comprising:

providing, to the printed circuit board, a plurality of test input signals to simulate printing press control signals, wherein the plurality of test input signals include including a frequency signal to simulate a printing press operating frequency;

monitoring responses of a plurality of simulated printing press loads driven by a plurality of printed circuit board output signals developed in response to the plurality of test input signals; and

analyzing the functionality of the printed circuit board based on the monitored responses of the plurality of simulated printing press loads.

24. (Canceled).

25. (Currently Amended) ~~The machine-readable medium according to Claim 24, A~~ machine readable medium storing instructions adapted to be executed by at least one processor to implement a method for testing functionality of a printed circuit board used to control operation of a printing press, the method comprising:

providing, to the printed circuit board, a plurality of test input signals to simulate printing press control signals, wherein the plurality of test input signals include including a function enable signal to enable a printing press function to be controlled by the printed circuit board;

monitoring responses of a plurality of simulated printing press loads driven by a plurality of printed circuit board output signals developed in response to the plurality of test input signals; and

analyzing the functionality of the printed circuit board based on the monitored responses of the plurality of simulated printing press loads.

26. (Previously Presented) The machine readable medium according to Claim 25, wherein the printed circuit board is a digital inker board configured to control:

a volume of ink applied to an ink roller of the printing press for image printing, and
a color change volume of ink applied to the ink roller for a color change function.

27. (Previously Presented) The machine readable medium according to Claim 26, wherein the plurality of test input signals include an ink enable signal to enable a roller inker function of the digital inker board.

28. (Previously Presented) The machine readable medium according to Claim 26, wherein the plurality of test input signals include a color change enable signal to enable the roller ink color change function of the digital inker board.

29. (Previously Presented) The machine readable medium according to Claim 26, wherein the plurality of simulated printing press loads include a plurality of ink pack solenoid coil simulated loads.

30. (Currently Amended) ~~The machine readable medium according to Claim 24,~~ A machine readable medium storing instructions adapted to be executed by at least one processor to implement a method for testing functionality of a printed circuit board used to control operation of a printing press, the method comprising:

providing, to the printed circuit board, a plurality of test input signals to simulate printing press control signals;

monitoring responses of a plurality of simulated printing press loads driven by a plurality of printed circuit board output signals developed in response to the plurality of test input signals; and

analyzing the functionality of the printed circuit board based on the monitored responses of the plurality of simulated printing press loads.

wherein the printed circuit board is a dampening, registration and ink board for controlling printing press roller dampening, roller positional registration and ink roller rotational speed.

31. (Previously Presented) The machine readable medium according to Claim 30, wherein the plurality of simulated printing press loads include a plurality of spray-bar solenoid coil simulated loads.

32. (Previously Presented) The machine readable medium according to Claim 30, wherein the plurality of simulated printing press loads include a plurality of registration solenoid coil simulated loads.

33. (Previously Presented) The machine readable medium according to Claim 30, wherein the method further comprises:

receiving, from the printed circuit board, a plurality of ink roller rotational speed analog drive signals.

34. (Currently Amended) ~~The machine readable medium according to Claim 24, A machine readable medium storing instructions adapted to be executed by at least one processor to implement a method for testing functionality of a printed circuit board used to control operation of a printing press, the method comprising:~~

providing, to the printed circuit board, a plurality of test input signals to simulate printing press control signals, wherein the plurality of test input signals include including a frequency signal to simulate a printing press operating frequency;

monitoring responses of a plurality of simulated printing press loads driven by a plurality of printed circuit board output signals developed in response to the plurality of test input signals; and

analyzing the functionality of the printed circuit board based on the monitored responses of the plurality of simulated printing press loads.